## BROAD EXAMINATIONS®

## P.6 MATHEMATICS EXAMINATION MID - TERM III 2024

Pupil's Name	•			
chool Name:	dos. dominios			
Pistrict Name:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Read the following instructions carefully:			-	
1. This paper is made up of two sections: A and B.	FOI	FOR EXAMINERS' USE ONLY		
2. Section A has 20 questions (40 Marks)	PAGES	MARKS	SIGN	
<ul><li>3. Section B has 12 questions (60 Marks)</li><li>4. Answer ALL questions in both sections A and B.</li></ul>	Page 2			
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams	Page 3	ija.		
should be done in pencil.	Page 4			
6. Unnecessary crossing of answers will lead to loss of marks.	Page 5			
7. Any handwriting, which cannot be easily read, may lead to loss of marks.	Page 6		1	
8. Do <b>not</b> fill anything in the boxes indicated for	Page 7			
Examiners' use only.	Page 8	-312 -		
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Teacher's comment to the learner	190			

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Team Head Mathematics Department

yrau, h.	SECTION SECTION	.A.	(40 MARKS)
	Work out: 24 · 4	2.	Find the place value of the underlined digit in the number 73 <u>6</u> 25.
		EG.	
2			
3.	Given that set $V = \{1, 2, 3, 6\}$ and set $U = \{2, 4, 6\}$ , show the above sets on the venn diagram below.	4.	Work out; $1\frac{1}{2} + \frac{2}{3}$
		1. 12.	The second of th
		=	
5.	List all factors of 30.	6.	What afternoon time is shown on the clock face below?
7.	The pictures below show the flowers in a P.6 class flower garden.  If represents 15 flowers, how many flowers are in the garden?	8.	Calculate the circumference of the circle below. $(\pi = \frac{22}{7})$
	The state of the s		

9.	Joanitah had some money. Her mother gave her more sh. 3500 and she got sh. 10,000 altogether. How	10.	Increase 480 kg in the ratio 5 : 4.
	much money did she have at first?		
. I	an and the second of the secon	Controduct speines better better	
11.	Draw an angle of 120° using a protractor.	12.	Express 10 35 hours to 12 hour clock system.
Ì	The modernite of the sign of the control of the con		Av and a fill to Title - to a part of the state of the st
13.	Given that 1 pound sterling (£) costs Ugsh.4600, how many Pound Sterling can one obtain from Ugsh.2318400?	14.	There will be a parents' meeting at school next week. What is the probability that the meeting will be held on a day beginning with letter T?
	The state of the s	94 94 1	The second state of the se
15.	Find the least number of books that can be shared by either 12 boys or 15 boys leaving a remainder of 5 books.	16.	What number has been expanded to give; (3x10 <sup>4</sup> ) + (2x10 <sup>3</sup> ) + (5x10 <sup>1</sup> ) + (4 x 10 <sup>0</sup> )?
		1 - 3	
Signal Signal	11gR(2801)		

17.	Briton borrowed sh. 150,000 from the association that charges interest at 5% per month. If he paid back sh. 195,000 at the end of 5 months, how much interest did he pay?	18.	In a line of pupils, Beatrace was the 18th from one side and 16th from the other side. How many pupils are in the line?
M.			
	Anala kapitat ir singilik ir sin	INT UKW	Vanue of Title Sprach with
19.	Express 20 as a product of its prime factors.	20.	Find the total distance around a cube of side 5cm.
	7 485	1	
1	<ul> <li>From the production of the control of</li></ul>	950	At lighting the post of the state of the constraints of the constraint
24	SECTI	ON .E	. (60 MARKS)
21.	In a class of 63 pupils, (5x - 1) pupil only, 3x like both subjects while 16	s like	Maths only, (12+x) pupils like English
(a)	Represent the above information on the venn diagram below. $n(\Sigma) = 63$	(b)	Find the value of x.
	Maths English		
	$\left( \begin{array}{c} 3x \end{array} \right)$		
		3/4	The state of the s
(c)	How many pupils like English?		The Theory of St. Father with Strong and now
-j-+			
	aria de la companya		
_			(05 Marks)

17	Study the number line below and use	e it t	o answer the questions about it
	q q	(a)	Write the integer represented by arrows;
λ.	p	13.91	(i) p
	-5 -4 -3 -2 -1 0 1 2 3 4		(ii) q p (ii)
		, I	(iii) r
5)	Write the mathematical sentence show	vn or	the number line above.
	and the state of t		(5 Marks)
E/F		(b)	Simplify: 0.42 x 0.035
3.	(a) Work out; $\frac{1}{3} - \frac{1}{4} + (\frac{2}{5} \text{ of } \frac{1}{4})$	(b)	Simplify; <u>0.42 x 0.035</u> 0.7 + 0.5
	3 4 5 4/		24,200
-1			
	and the second second second		
	<u> </u>		
		4	(5 Marks)
	SEAT FULL	_	(5 Marks)
١.	The venn diagram below shows F20 a	and F	N. Use it to answer questions about it.
	F20FN	(a)	Find the value of m.
	$\sqrt{2}$	( ,	4
	$\begin{pmatrix} 2_2 \\ 5_1 \end{pmatrix} \begin{pmatrix} m \\ 3_2 \end{pmatrix} \begin{pmatrix} 3_1 \\ 3_2 \end{pmatrix}$		
	32 33		
)	Find the value of N.	(c)	Calculate the LCM of 20 and N.
		` '	
	Market 18 ( Tilk S. )		
	Contract of the section		
			(4 Marks)
). ·	Study the figure below and use it to a	answ	
	A B	(a)	Find the length AB.
	The state of the s		<del>-</del>

12cm

15cm

(b)	Calculate the area of the figure.	(c)	Work out the distance around the figure:
	to mains the firm as within post relation and		
		907 PA	
ls.		: 1	
· ·		4	
	Agilia, a lagarana esta 3	3(1)	
	The second secon	erti d	r invade and the limits median satt sort.
ì			(6 Marks
26.	(a) A lorry carries 1400 bricks per	(b)	How much money is needed to buy 5 lorries
	trip. How many trips does it make to		of bricks if each brick costs sh. 200?
	carry 11,200 bricks?		
	*		
		-	
+	And the second second		
		1	
	4		E .
	N 1 20		(04 mart
7.	(a) Using a ruler, a pencil and a pair	of cor	mpasses only construct a rectangle KLMN
	where line KL = 8cm, LM= 5cm.	7 H	mpasses only, construct a rectangle KLMN
	ी । जिल्लामा क्रिकेट का किस स्वरूप के कि	in Pi	(F)
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		y (*)	
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	The Property of the Property o		Vertille alle all and a vertille and
	the baryen set		tudy the figure below and use it is answ
	500 mm		The property of the second sec
	(b) Join K to M and measure angle MI	ΖI	
	was in the measure angle Mi	NL.	Nacen / From
1			
8	A. A. St. Dr		(5-Mar

8 (a) If a = 2		The second secon
8. (a) If $a = 3$ and $b = 4$ , find the value		
a die Value	(b)	Solve for k; 2k - 4 = 10 belost ansackt
		TO HOUSE SECTION OF THE SECTION OF T
Alona Ta	17.10	
		Construction of the contract o
		25. On Controls bind sortions of
		Enotand shilles notes:
	V	A second shifting nows a second
	100	
The pie-chart below showed		which increased the vaccon coper (5 Marks)
school. Study and use it to answer q	ber of	f desks in P.7, P.6, P.5 and P.4 in a certain
die it to answer q	uesti	ons about it.
	(a)	What fraction represents desks in P.5 class?
$P.4 = \frac{1}{3}$ P.7	N. 1	AND REAL PROPERTY OF THE PROPE
A series of the period of the series	The state of	A measurest left town P at 8:00 and and the
	14:11:34	the rested for 30 minutes at town Quant
6	0.549	tan Flour.
	hapat 1/2	The real party of the state of
$\left[\begin{array}{c c} P.6 & \frac{1}{4} \\ \end{array}\right] P.5$		
	1	
If there are 72 desks in all the four	(c)	Express the number of desks in P.4 to
classes, find the number of desks in	(0)	degrees.
P.7 class.		degrees.
		the state of the s
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	ho Wester)	a consideration of the second contract of the configuration of the second contract of the s
	7440	(5 Marks
There are 10% more girls than boys i	n a cl	ass.
Find the percentage of boys.	(b)	If there are 40 pupils in the class, how
Tillu the percentage of 2575		many girls are in the class?
MIN AS BASS IN THE HEADER		31.00ain 9:00ain 10:00.0
		muon miemit
THE RESERVE OF THE STATE OF THE	ο¥ .	(b) Calculate the mororist's average vor
	v .	
	100	
	2	
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		(5 Marks)
11.2024) Tel: 04	86 - 442	2077; 0786-659301, 0772-864523. Page 7 of 8  1 - Term III 2024  ORK BOOKS & PAST PAPER BOOKLETS WAY BOOKS & PAST PAPER BOOKLETS
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THE LIDAY PACKA	AGES, WC	ORK BOOKS & PAST PAPER BOOKES

A parent banked school fees as shown below. (a) Complete the table below correctly. Denomination No. of notes **Amount** Fifty thousand shilling notes Sh. Twenty thousand shilling notes Sh. 20,000 \_ thousand shilling notes Sh. 40,000 Five thousand shilling notes 8 Sh. (b) How much money did the parent bank? professor and all the second terms of the part of the part of the second section of the section Pondicional programments of thirty heighty angels. 32. (5 Marks) A motorist left town P at 8:00am and travelled at 60km/h for  $1^1_2$  hours to town Q. He rested for 30 minutes at town Q and continued to town R which is 30km from Q Show the motorist's journey on the travel graph below. (a) 120 100 Distance in km 80 60 40 20 9:00am 10:00am 8:00am 11:00am

Time in hours
(b) Calculate the motorist's average speed for the whole journey.

(06 marks)